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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/957,471		09/21/2001	Kimihiko Nishioka	P 283651 OL97501N-US	4064	
909	7590	04/13/2004		EXAMINER		
PILLSBU	JRY WINT	THROP, LLP	LESTER, EVELYN A			
	P.O. BOX 10500 MCLEAN, VA 22102			ART UNIT	PAPER NUMBER	
MCDLAN, VA 22102			•	2873	2873	

DATE MAILED: 04/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	ω							
	Application		Applicant(s)					
	09/957,471		NISHIOKA ET AL					
Office Action Summary	Examiner		Art Unit					
	Evelyn A. Le	ester	2873					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply	N V IO OFT TO I	EVELDE A MONTHY)					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mainearned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, I eply within the statutory od will apply and will ex ute, cause the applicati	nowever, may a reply be time minimum of thirty (30) days pire SIX (6) MONTHS from t on to become ABANDONED	ely filed will be considered timel he mailing date of this c					
1) Responsive to communication(s) filed on	·							
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-f	īnal.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application	on.							
4a) Of the above claim(s) is/are withdo		deration.						
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	l/or election requ	iirement.						
Application Papers								
9)☐ The specification is objected to by the Exami	ner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the	Examiner. Note	the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. §§ 119 and 120								
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	ign priority unde	r 35 U.S.C. § 119(a)	-(d) or (f).					
1.⊠ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
 Copies of the certified copies of the pr application from the International Bure 			d in this National	Stage				
* See the attached detailed Office action for a list	st of the certified	I copies not received						
13) Acknowledgment is made of a claim for domestince a specific reference was included in the factor of the fac								
a) The translation of the foreign language p	* *							
14) Acknowledgment is made of a claim for domes reference was included in the first sentence of								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Interview Summary (Notice of Informal Pa						
o, Lomanon Disclosure Statement(s) (F10-1449) Faper No(s)	<u> </u>	Other: <i>PTO-90C</i> .						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Specification

3. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 4, 5, 7-10, 12 and 13 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a combination of elements, does not

reasonably provide enablement for the single means claims indicated above. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

A single means claim, such as where a means recitation does not appear in combination with another recited element of means, is subject to an undue breadth rejection.

In claim 4, the scope encompasses every conceivable optical element with a variable characteristic, not even a specific characteristic that uses at least two non-specific driving methods. There is no disclosure, which shows that the Applicants had possession at the time of their invention any and all conceivable structures for an optical element with at least any two or more driving methods. The same line of reasoning applies to claims 5, 7-10, 12 and 13.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (f) he did not himself invent the subject matter sought to be patented.
- 5. Claims 1-20 are rejected under 35 U.S.C. 102(f) because the applicant did not invent the claimed subject matter.

A U.S. published patent application, US 2003/0117719 A1, having no common inventor with the Applicants' U.S. patent application discloses several of the embodiments of the Applicants' invention, wherein the drawing Figures are nearly identical. Please note:

APPLICANTS' APPLICATION

OTHER INVENTORS' APPLICATION

(US 2003/0117719 A1)

F	Figure 3	Figure 32
F	Figure 4	Figure 33
F	Figure 5	Figure 34
F	Figure 6	Figure 35
F	igure 7	Figure 36
F	Figure 8	Figure 37
F	igure 9	Figure 38
F	Figure 11	Figure 39
F	Figure 13	Figure 40
F	Figure 14	Figure 41
F	Figure 15	Figure 42
F	Figure 16	Figure 43
F	Figure 17	Figure 58
	Figures 18a and 18b	Figures 59 and 60
F	Figure 19	Figure 61
	igure 21	Figure 45
	Figure 24	Figure 63
	Figure 26	Figure 64
	igure 27	Figure 65
	Figure 28	Figure 66
	igure 29	Figure 67
F	Figure 31	Figure 44

The Brief Descriptions for each of the drawing Figures of the other inventors' application clearly indicate that the Figures depict an embodiment of their invention. How is it that two different inventorships could derive the same inventive embodiments? Therefore,

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the claims are rejected under 35 U.S.C. 102(f) until such time that evidence is presented showing who are the actual inventors of the disclosed invention(s). Note MPEP 2137.

6. Claims 10, 11, 16 and 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Iwasaki (JP 6-258502 A).

lwasaki discloses the claimed invention of a variable optical characteristic optical element, such as a variable focus lens, having a transparent member (11 or 12) in the vicinity of a surface on at least one side of the optical element, i.e. lens, which protects the liquid from oozing out of the optical element. Further, Iwasaki discloses the claimed invention of an optical apparatus having a space (2 or 13 or 23) facing a variable optical characteristic optical element is closed with a transparent member (i.e. Figure 3, element 11 or 12) and a mechanical member (8 or 18).

7. Claims 1-6, 10, 11, 16, 17 and 19 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Michelet (U.S. patent 4,289,379).

Michelet discloses the claimed invention of a variable optical characteristic optical element utilizing at least two selected [methods of driving] including electric field through electrodes (8-10), piezoelectric material layers (6,7) and the fluid (13) under pressure, wherein Michelet's invention is a lens and a mirror element, noting reflecting layer (25).

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With respect to claims 10 and 11, Michelet further includes a transparent member (62) in the vicinity of at least one surface of the optical element and the mechanical member being any of the movable surfaces.

8. Claim 8 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Colbourne et al (U.S patent 5,915,063).

Colbourne et al disclose the claimed invention of a variable optical characteristic mirror, which uses a magnetostrictive (18,19) material. Note Colbourne et al in Figure 1 and its accompanying text.

9. Claims 1, 3-7 and 9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Schachar (U.S. patent 5,774,274).

Schachar discloses the claimed invention of a variable optical characteristic optical element as noted in Figure 9 and at column 8, line 61 to column 9, line 54.

Schachar includes utilizing a piezoelectric effect and a magnetostriction, as well as fluid pressure.

10. Claim 13 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hager et al (U.S. patent 4,494,003).

Hager et al disclose the claimed invention of a variable focus lens by utilizing a photomechanical effect, as noted in column 2, lines 35-58.

11. Claims 1, 2, 4, 12 and 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kuzyk et al (U.S. patent 5,682,447).

Kuzyk et al disclose the claimed invention of a variable optical characteristic optical element, such as a mirror, utilizing a photomechanical effect and a temperature change, as noted in the Invention Summary beginning at column 1, line 65; also at column 4, lines 31-49.

12. Claims 16, 18 and 20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Miles (U.S. patent 6,055,090).

Miles discloses the claimed invention of an optical apparatus, such as a variable mirror, characterized in that a space or cavity (between elements 206 and 208) facing a variable optical characteristic optical element is closed with a transparent member (204) and a mechanical member (208), wherein the mechanical member is air-permeable in the layer formed of reflective members (208) allows for air flow out from under each mechanical member to permit the reflective layer to move as desired.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evelyn A. Lester whose telephone number is (571) 272-2332. The examiner can normally be reached on M- F, from about 10 am to 7 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Evelyn A. Lester Primary Examiner Art Unit 2873